19. Discuss the categories of software. Add a note on the applications of software.

20. Explain the various types of charts available in MS Excel.

NOVEMBER/DECEMBER 2023

CABT32/FABT32 — BIOSTATISTICS AND COMPUTER APPLICATION

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

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Answer ALL the following.

Very short answer questions.

1. What is sampling?

2. What is tabulation? Distinguish between classification and tabulation.

3. Define Z Score.

4. Find the mode for the following data

   3, 3, 6, 9, 15, 15, 15, 27, 27, 37, 48.

5. Define regression line.

6. What is Null hypothesis?

7. Recall the input devices.

8. How many bytes represent one GB?

9. How is spreadsheet opened?

10. Name the shortcut used for cutting and copying data in a spreadsheet.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Summarize the function and scope of statistics in various fields.

Or

(b) Schematically show the graphical representation of data with four quadrants.

12. (a) The mean age of 30 students is 18 years and the mean age of another group of 20 students is 20 years. Find out the mean age of all the 50 students combined together.

Or

(b) Discuss the steps for calculating standard deviation from grouped data by long method.

13. (a) Explain how correlation analysis can be carried out using MS Excel.

Or

(b) Define degree of freedom. Give the formula for attaining degree of freedom in single and paired data while computing t ratio.

14. (a) Explain RAM and ROM.

Or

(b) Discuss on the various storage devices.

15. (a) Explain the steps involved in aligning data in excel worksheet.

Or

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(b) How is a sheet added, renamed and deleted in the workbook?

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What is meant by presentation of data? Elaborate the various methods of presenting data.

17. Find out the quartile deviation from the following data.

9 23 17 16 25 20 21 27 13 8 3

18. Find the coefficient of correlation between the variables X and Y using Karl Pearson method.

x:	1	3	4	6	8	9	11	14
y:	2	4	13	9	11	4	14	7